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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,998	08/26/2003	John Pether	131279.1034 (B.036AUS)	3085
60148 7590 07/10/2008 GARDERE / JAMES HARDIE GARDERE WYNNE SEWELL, LLP 1601 ELM STREET SUITE 3000 DALLAS, TX 75201				
EXAMINER HYUN, PAUL SANG HWA				
ART UNIT 1797		PAPER NUMBER		
NOTIFICATION DATE 07/10/2008		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IP@GARDERE.COM

Office Action Summary

Application No.

10/647,998

Applicant(s)

PETHER ET AL.

Examiner

PAUL S. HYUN

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Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) 3 and 18-21 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 4-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date 4/28/08
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 28 April 2008 has been entered.

Claims 1-21 remain pending with claims 3 and 18-21 being withdrawn. Claim 3 remains subject to rejoinder upon the allowance of the elected claims.

The amendments to claims 1 and 2 have been acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims **1, 2, 4, 5 and 14-16** are rejected under 35 U.S.C. 102(b) as being anticipated by Lutenegger (US 4,474,066).

Lutenegger discloses a device for conducting load tests on soil samples (see line 51, col. 1). The device comprises a slit 44 for receiving a soil sample wherein the slit has a rectangular cross-section defined by a base 18, sidewalls 50 and 52, and an open top (see lines 31-47, col. 4). The device further comprises a top closure member 39 that applies a vertical pressure to the soil

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sample. The vertical pressure applied by member 39 resolves to form a horizontal pressure, which causes sidewall 52, which is resiliently biased, to move outwardly.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lutenege in view of Maddison (US 5,388,464).

Although Lutenegeger discloses the use of hydraulics to bias sidewall 52, the reference does not disclose the use of a spring.

Maddison discloses a device for conducting stress tests. The device comprises a piston to apply pressure to a sample. The reference discloses that the device can utilize either a hydraulic system or a spring to bias the piston (see Abstract). Because a spring is well known in the art to be a substitute for a hydraulic system, it would have been obvious to one of ordinary skill in the art to use a spring, including a leaf spring, to bias sidewall 52 disclosed by Lutenegeger.

Claims **7, 8, 12, 13 and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over Lutenegeger in view of Kellner (US 4,483,197).

Lutenegeger does not disclose windows, a heating, a cooling means, or a lining configured to minimize friction.

With respect to the windows, Kellner discloses an apparatus for testing soil (see Fig. 1). The apparatus is configured to exert pressure on the soil sample that is placed inside the apparatus. The apparatus comprises a housing that is made from a transparent material to enable viewing of the sample (see line 65, col. 3). In light of the disclosure of Kellner, it would have been obvious to one of ordinary skill in the art to make at least a portion of the Lutenegeger device out of a transparent material so that the sample can be viewed during testing.

With respect to the heating and the cooling means, the apparatus disclosed by Kellner further comprises a heater for heating the soil sample to simulate real-life soil temperatures (see lines 45-55, col. 5). In light of the

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disclosure of Kellner, it would have been obvious to one of ordinary skill in the art to provide the Lutenegeger device with a heater so that it can also simulate real-life soil temperatures. Likewise, it would have been obvious to one of ordinary skill in the art to provide a cooling means to simulate cold conditions.

With respect to claim 17, Kellner discloses the use of an anti-frictional coating 15 to minimize friction between the soil and the container. In light of the disclosure of Kellner, it would have been obvious to one of ordinary skill in the art to coat the inner surface of the slit disclosed by Lutenegeger with an anti-frictional coating to minimize the damage to the apparatus caused by friction.

Claims **9-11** are rejected under 35 U.S.C. 103(a) as being unpatentable over Lutenegeger in view of Wissa (US 3,635,078).

Lutenegeger does not disclose a port that is in communication with the slit.

Wissa discloses an apparatus for determining stress-strain properties of soil (see Figure). The apparatus comprises a chamber in which a soil sample is disposed, a piston for applying axial pressure, and a plurality of ports 11 and 15 that are in communication with the chamber. Ports 15 introduce water into the chamber, enabling one to determine the swell pressure of the soil sample (see Abstract). Port 11 communicates the chamber with a pressure transducer so that the swell pressure can be determined (see lines 36-40, col. 2). In light of the disclosure of Wissa, it would have been obvious to one of ordinary skill in the art to provide ports that are in communication with the slit disclosed by Lutenegeger so that swell pressure of the soil sample can be determined.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but they are moot in view of the new grounds of rejection. The amendments to the claims necessitated new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL S. HYUN whose telephone number is (571)272-8559. The examiner can normally be reached on Monday-Friday 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Paul S Hyun/
Examiner, Art Unit 1797

/Jill Warden/
Supervisory Patent Examiner, Art Unit 1797